

CLARK COUNTY (continued)

Completed: Aug. 4, 1962
Status: P & A
Depth: 2,300 ft
Remarks: Gas shows at 300 ft and 490 ft. Oil and gas shows 1,015 ft and 1,255 ft. Top of oil sand reported at 1,302 ft.

TRI-STATE OIL EXPLORATION CO.

Miskell-Gov't No. 1
API no.: 27-003-05005
Permit no.: 39
Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T21S, R56E
1,800 ft from N line, 1,370 ft from east line
Elevation: 5,310 ft
Completed: Sept. 10, 1959
Status: P & A
Depth: 2,602 ft
Remarks: Well is entirely in Permian Bird Spring Gp. Minor oil shows reported (Bissell, 1973, p. 76).

U.S. OIL CO. (MATADOR OIL CO.)

Wilson No. 1X
API no.: 27-003-05010
Permit no.: 23
Location: SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T22S, R60E
1,082 ft from north line, 2,390 ft from east line
Completed: 1959
Status: Water well
Depth: 2,026 ft
Logs:
Driller 0-2,026 ft
Remarks: Wilson No. 1 was drilled to a depth of 360 ft in 1955, then P & A. Wilson No. 1X was drilled 10 ft south of No. 1; permit was transferred from No. 1 to No. 1X. Oil shows reported at 1,457-1,489 ft (Johnson, 1959, p. 152).

UNITED PETROLEUM CORP.

Apex No. 1
API no.: 27-003-05067
Permit no.: CL16
Location: SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 6, T18S, R64E
250 ft from south line, 250 ft from west line
Elevation: 2,380 ft
Completed: Mar. 1948
Status: P & A
Depth: 1,247 ft
Remarks: A gas show from brecciated limestone was reported at 920 ft.

WILSON, L. R.

Government No. 1
API no.: 27-003-05016
Permit no.: CL22
Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T22S, R63E
465 ft from north line, 2,315 ft from east line
Elevation: 2,100 ft at DF
Completed: Feb. 28, 1953
Status: D & A
Depth: 841 ft
Remarks: After the tools twisted off, the hole was abandoned and the rig was skidded 50 ft and redrilled as the Leonard Wilson Government No. 1-A (Lintz, 1957a, p. 24).

WILSON, L. R.

Government No. 1-A
API no.: 27-003-05016-R

Permit no.: CL25

Location: NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T22S, R63E
465 ft from N line, 2,265 ft from east line
Elevation: 2,100 ft at DF

Completed: Aug. 22, 1953

Status: D & A

Depth: 1,465 ft

Remarks: This was a redrill of the L. R. Wilson Government No. 1.

ELKO COUNTY

Reports in the Nevada State Journal in 1901 indicate an interest in the petroleum possibilities in Elko County; however, there is no record of any oil wells drilled in the county until 1922 when the Bull Run Oil and Gas Co. No. 1 was drilled. Another well was drilled near Elko in 1924, but no other wells are known to have been drilled until Gulf Refining Co., among others, began the era of modern petroleum exploration in eastern Nevada in the 1950's. Drilling in the 1970's and 1980's ranged over most of the county, and resulted in a number of significant oil and gas shows, including a potentially commercial gas well, the Wexpro Co. Jiggs No. 10-1.

Oil or tarry or solid bitumen is found in outcrop in several Elko County localities. At Lone Mountain Creek (sec. 16, T37N, R53E), solid bitumen occurs as fracture fillings in an Upper Cretaceous diorite sill which intrudes the Ordovician Vinini Formation (Poole and Claypool, 1984). At Cole Creek (sec. 4, T31N, R52E; and secs. 33 and 34, T32N, R52E), solid bitumen veinlets, blebs, and lenses occur in laminated dolomite of the Woodruff Formation, and a partly oxidized film occurs on exposed rock in prospect pits (Poole and Claypool, 1984). Two surface bitumen occurrences in shaly mudstone of the Mississippian Chainman Shale have been reported in southwestern Elko County: Smith and Ketner (1975, p. 44) reported solid bitumen veins and fracture fillings at Smith Creek (NE $\frac{1}{4}$ sec. 1, T29N, R52E; and Poole and Claypool (1984) reported tarry bitumen in voids and an oxidized oil film on the floor of a barrow pit at East Adobe Creek (sec. 2, T34N, R54E). At the Wells oil seep (NE $\frac{1}{4}$ sec. 5, T37N, R62E), oil is reported to be present within a porcelaneous tuff which is exposed in a railroad cut 1 mile northwest of Wells. The source of the oil is unknown; it could be a spill from railroad operations (Osmond and Elias, 1971, p. 424; Foster and Dolly, 1980).

Well Data

AMINOIL U.S.A., INC.

S.P. Land Company No. 1-23

API no.: 27-007-05216

Permit no.: 259

Location: SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T30N, R52E
1,600 ft from south line, 1,150 ft from west line

Elevation: 5,431 ft

Completed: May 7, 1979

Status: P & A

Depth: 7,145 ft

ELKO COUNTY (continued)**Logs:**

Lithologic 840-7,145 ft
 DIL/SP/GR 827-7,122 ft
 FDC/CNL/GR/Cal 827-7,136 ft
 BHCS/GR/Cal 826-7,143 ft

Samples:

Cuttings 1,648-7,145 ft

Remarks: Side wall core analysis available at NBMG. Dark brown asphaltic sands with oil shows at 4,520-4,700 ft. Scattered oil and gas shows at 4,700 ft to TD. Well reported to bottom in Mississippian Chainman Sh.; possibly in Tertiary for most of depth.

AMOCO PRODUCTION CO.**Huntington Creek No. 1**

API no.: 27-007-05219

Permit no.: 266

Location: NW¼SE¼ sec. 30, T31N, R56E

1,650 ft from south line, 1,860 ft from east line

Elevation: 5,467 ft

Completed: Apr. 2, 1980

Status: P & A

Depth: 7,250 ft

Logs:

FIL 1,706-6,380 ft
 CNL/FDC/GR 1,680-6,465 ft
 DIL/GR 1,701-6,460 ft
 DM 1,707-7,001 ft
 BHCS 7,006-7,247 ft
 CBL 1,701-6,983 ft
 TS 1-6,467 ft
 BHCS/GR 1,701-6,453 ft
 Directional 1,707-6,450 ft
 CNL/FDC 6,246-7,249 ft

Samples:

Cuttings 10-7,050 ft

Remarks: Gas shows at 4,360-4,485 ft; oil and gas shows at 5,650-5,825 ft.

ARCO OIL & GAS CO.**Stag Mountain No. 1**

API no.: 27-007-05233

Permit no.: 404

Location: NW¼NE¼ sec. 22, T39N, R58E

605 ft from north line, 2,065 ft from east line

Elevation: 6,076 ft

Completed: Dec. 2, 1984

Status: P & A

Depth: 10,000 ft

Tops:

Surface Tertiary volc.
 1,850 ft Tertiary sedimentary rocks
 2,050 ft Ordovician Vinini sh.
 6,450 ft Mississippian Chainman Sh.

Logs:

Lithologic 500-10,000 ft
 DLL/GR 3,472-9,991 ft
 CNL/GR 3,472-10,000 ft
 BHCS 4,372-10,000 ft
 Driller 0-10,000 ft
 LSS 1,017-3,462 ft

ATLANTIC INTERNATIONAL OIL CORP.**Dalton No. 1**

API no.: 27-007-05210-A

Permit no.: 158

Location: SW¼NW¼SW¼ sec. 34, T38N, R62E

1,740 ft from south line, 412 ft from west line

Elevation: 5,611 ft at KB

Completed: 1977

Status: P & A

Depth: 4,205 ft

Logs:

Lithologic 3,700-4,180 ft
 IES 3,690-4,182 ft
 TS 160-4,178 ft

Samples:

Cuttings 0-4,180 ft

BULL RUN OIL & GAS CO.**No. 1**

API no.: 27-007-05052

Permit no.: EL3

Location: SE¼ sec. 21, T43N, R52E

Completed: 1922

Status: D & A

Depth: 800 ft

Remarks: At 625 ft a pocket of inflammable gas blew water out of the hole; the gas flow ceased after several hours (Lintz, 1957a, p. 40).

CITIES SERVICE CO.**Federal BL No. 1**

API no.: 27-007-05227

Permit no.: 332

Location: SE¼SW¼ sec. 13, T29N, R55E

335 ft from south line, 2,294 ft from west line

Elevation: 5,482 ft

Completed: Apr. 8, 1982

Status: P & A

Depth: 10,045 ft

Tops:

4,676 ft Tertiary
 8,695(?) ft Tertiary Elko Fm.
 9,075(?) ft Paleozoic carbonates

Logs:

DIL 1,482-10,041 ft
 FIL 9,000-10,047 ft
 BHCS 1,483-10,035 ft
 VDL 9,000-10,035 ft
 CNL/FDC 1,483-10,015 ft
 DL 2,000-10,047 ft

Samples:

Cuttings 1,500-10,040 ft

Remarks: Oil recovered and gas to the surface on DST at 7,580-7,683 ft. Core recovered from 8,685-8,707 ft reported to be Oligocene Indian Well Fm.

DEPCO, INC.**Ventosa Unit No. 42-13**

API no.: 27-007-05215

Permit no.: 255

Location: NE¼SE¼NE¼ sec. 13, T34N, R64E

1,400 ft from north line, 200 ft from east line

Elevation: 5,597 ft

Completed: Feb. 22, 1979

Status: P & A

Depth: 6,074 ft

Logs:

Mud 54-6,074 ft
 DIL 1,217-6,074 ft
 BHCS 1,217-6,034 ft

Samples:

Cuttings 15-6,070 ft

ELKO COUNTY (continued)

DIAMOND OIL CO.

Conquest No. 1

API no.: 27-007-05057

Permit no.: EL13

Location: NW¼NW¼NE¼ sec. 15, T26N, R54E
500 ft from north line, 3,130 ft from west line

Elevation: 5,875 ft

Completed: June 3, 1954

Status: P & A

Depth: 1,070 ft

DIAMOND OIL CO.

Diamond Valley No. 1

API no.: 27-007-05054

Permit no.: EL9

Location: sec. 10, T27N, R54E

Completed: 1953

Status: D & A

Depth: 804 ft

DIAMOND OIL CO.

Diamond Valley No. 2

API no.: 27-007-05055

Permit no.: EL10

Location: sec. 3, T27N, R54E

Completed: 1953

Status: D & A

Depth: 165 ft

DIAMOND OIL CO.

Diamond Valley No. 3

API no.: 27-007-05056

Permit no.: EL11

Location: sec. 3, T27N, R54E

Completed: 1953

Status: D & A

Depth: 565 ft

DIAMOND SHAMROCK EXPLORATION CO.

Kimbark Federal No. 1-28

API no.: 27-007-05232

Permit no.: 377

Location: NE¼SE¼ sec. 28, T37N, R56E

1,927 ft from south line, 2,012 ft from west line

Elevation: 6,034 ft

Completed: Oct. 22, 1984

Status: P & A

Depth: 12,573 ft

Tops:

Surface	Quaternary alluvium
84 ft	Oligocene(?) volc.
172 ft	Eocene Elko Fm.
410 ft	Mississippian Diamond Peak Cgl.
570 ft	Mississippian Chainman Fm.
5,948 ft	Devonian Nevada Gp.
8,557 ft	Silurian Lone Mountain Fm.
9,944 ft	Silurian Roberts Mountain Fm.
11,380 ft	Ordovician Ely Springs Dol.

Logs:

Lithologic	81-12,573 ft
DLL/GR	118-11,906 ft
S	122-11,918 ft
CNL	140-11,925 ft
GR	1,588-11,925 ft

Samples:

Cuttings 81-12,570 ft

Remarks: Diamond Shamrock Exploration Co. became operator on June 1, 1984; Kimbark Oil and Gas Co. had been operator. Minor oil show in Chainman Fm. (3,860-3,890 ft).

DIAMOND SHAMROCK EXPLORATION CO.

Magnuson Fee No. 22-21

API no.: 27-007-05234

Permit no.: 428

Location: SE¼NW¼ sec. 21, T35N, R55E

2,245 ft from north line, 2,182 ft from west line

Elevation: 5,910 ft

Completed: Aug. 14, 1985

Status: P & A

Depth: 8,865 ft

Tops:

Surface	Quaternary alluvium
115 ft	Oligocene ash tuff
960 ft	Eocene Elko Fm.
1,900 ft	Mississippian Diamond Peak Fm.
1,972 ft	Mississippian Chainman Ss.
5,255 ft	Mississippian Chainman Sh.
5,940 ft	Mississippian Tripon Pass Ls.
6,759 ft	Devonian Guilmette Ls.
7,671 ft	Devonian upper Nevada Gp.
8,596 ft	Devonian Oxyoke Canyon Ss.
8,682 ft	Devonian Beacon Peak Dol.

Logs:

Lithologic	115-8,865 ft
TS	1,420-2,002 ft
GR	3,706-8,807 ft
S	115-8,827 ft
DI	115-1,493 ft
DLL	1,300-8,824 ft
N/FDC	115-8,836 ft

Samples:

Cuttings 1,500-8,865 ft

Remarks: Oil shows at 1,900-1,960 ft and 2,160-2,256 ft. Methane first detected at 4,470 ft.

DR. EBY

API no.: 27-007-04001

Permit no.: EL1

Location: T35N, R56E

Status: D & A

Remarks: No further information is available on this well which was reported to be very shallow.

ELKO OIL & DEVELOPMENT IMPROVEMENT CO.

No. 1

API no.: 27-007-05053

Permit no.: EL4

Location: SE¼SE¼SE¼ sec. 4, T34N, R55E

Completed: 1924

Status: D & A

Depth: 3,337 ft

Logs:

Driller 0-1,727 ft

Remarks: This well is locally known in Elko as the John Brown Well.

EXXON CORP.

Four Mile Butte Federal No. 1

API no.: 27-007-05238

Permit no.: 443

Location: SE¼SW¼ sec. 8, T43N, R49E
843 ft from south line, 2,017 ft from west line
Elevation: 5,385 ft
Completed: Nov. 2, 1985
Status: P & A
Depth: 14,464 ft
Logs:

Lithologic	150-14,464 ft
BHCS	2,860-13,659 ft
GR	2,100-14,458 ft
CNL/FDC	2,100-14,491 ft
FDL	2,860-13,740 ft
FDC	55-14,497 ft
TS	0-14,426 ft
DI	2,860-13,696 ft

Samples:

Cuttings	150-14,460 ft
Core	14,442-14,464 ft

Remarks: Tertiary volcanic rock in core, 14,442-14,464 ft.
A bottom-hole temperature of 330°F was recorded.

FILON EXPLORATION CO.

Ellison No. 1

API no.: 27-007-05210-B

Permit no.: 207

Location: SW¼NE¼ sec. 4, T40N, R52E

1,980 ft from north line, 1,980 ft from east line

Elevation: 5,750 ft

Completed: July 3, 1977

Status: Water well

Depth: 4,460 ft

Logs:

DIL	1,208-4,460 ft
GR/FDC	1,210-4,465 ft
GR/S	1,208-4,464 ft

Samples:

Cuttings	0-4,450 ft
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Remarks: Water analysis available on DST's at NBMG.
Plugged back to 1,852 ft and now used as a water well.
Trace of hydrocarbons in DST, 3,994-4,070 ft. Tertiary tuffs and minor basalt to TD.

GULF OIL CORP. OF CALIFORNIA

Owl Hill Federal No. 1

API no.: 27-007-05012

Permit no.: 68

Location: SW¼NW¼ sec. 18, T28N, R70E

1,699 ft from north line, 3,999 ft from east line

Elevation: 5,600 ft (estimate)

Completed: Aug. 31, 1963

Status: P & A

Depth: 1,546 ft

Tops:

562 ft	Mississippian Scotty Wash
752 ft	Mississippian Chainman Sh.
1,260 ft	Mississippian Joana sh.(?)
1,310 ft	Devonian(?)

Logs:

IES	509-1,100 ft
FDL	500-1,100 ft
GR	50-1,095 ft
Cal	499-1,100 ft

Remarks: At 1,435 ft fresh water was encountered which produced 50-100 bbl.

GULF REFINING CO.

Dolly Varden Unit No. 1

API no.: 27-007-05000

Permit no.: EL7

Location: E½NE¼SE¼ sec. 36, T30N, R64E

1,980 ft from south line, 40 ft from east line

Elevation: 5,850 ft (at KB)

Completed: Apr. 29, 1953

Status: D & A

Depth: 3,158 ft

Tops:

Surface	Triassic Thaymes Fm.
295 ft	Permian Gerster Ls.
675 ft	Permian Oquirrh Fm.

Logs:

Lithologic	0-3,158 ft
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Samples:

Cuttings	30-3,158 ft
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GULF REFINING CO.

Mary's River Federal No. 1

API no.: 27-007-05010

Permit no.: 16

Location: center, NW¼NE¼ sec. 16, T41N, R60E

660 ft from north line, 1,980 ft from east line

Elevation: 5,962 ft

Completed: Jan. 22, 1955

Status: P & A

Depth: 6,612 ft

Tops:

Surface	alluvium
6,475 ft	Ordovician Kinikinic Qtz.

Logs:

ES	1,024-6,612 ft
GR/N	87-6,614 ft
Section gage	1,024-6,611 ft
Temp	1,000-6,612 ft

Samples:

Cuttings	0-6,616 ft
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Remarks: Minor oil show reported in Tertiary volcanic rocks at 4,468 ft.

GULF REFINING CO.

Pete Itcaina No. 1

API no.: 27-007-05006

Permit no.: 12

Location: center, SE¼NW¼ sec. 3, T37N, R59E

1,980 ft from north line, 3,300 ft from east line

Elevation: 5,505 ft

Completed: June 10, 1954

Status: P & A

Depth: 5,465 ft

Tops:

Surface	alluvium(?)
370(?) ft	Tertiary(?)
3,310 ft	Mississippian Chainman Sh.

Logs:

Lithologic	0-5,465 ft
IES	1,027-5,445 ft
GR/N	33-5,446 ft

Samples:

Cuttings	1,000-5,465 ft
Core Chips	1,780-5,083 ft (incomplete)

Remarks: Water zone at 5,028-5,083 ft.

GULF REFINING CO.

Thousand Springs No. 1

API no.: 27-007-05009

Permit no.: 5

Location: center, SE¼SW¼ sec. 8, T40N, R66E

662 ft from south line, 1,982 ft from west line

ELKO COUNTY (continued)*Elevation:* 5,650 ft*Completed:* Apr. 16, 1954*Status:* P & A*Depth:* 8,412 ft*Tops:*

Surface	Quaternary alluvium
1,150 ft	pre-Quaternary

Logs:

Lithologic	0-8,412 ft
IES	557-8,412 ft

Samples:

Cuttings	0-8,412 ft
Core Chips	2,482-8,211 ft (incomplete)

GULF REFINING CO.**Wilkins Ranch No. 1***API no.:* 27-007-05007*Permit no.:* 3*Location:* NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T38N, R61E

652 ft from north line, 657 ft from east line

Elevation: 5,589 ft*Completed:* June 1, 1954*Status:* P & A*Depth:* 8,416 ft*Tops:*

Surface	Tertiary
8,033 ft	Mississippian(?)

Logs:

Lithologic	0-8,414 ft
ES	558-8,421 ft
GR/N	100-7,200 ft
GR	7,000-8,400 ft

Samples:

Cuttings	1,060-8,394 ft
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Remarks: Oil shows at 3,944, 6,015-6,020, 6,493-6,920, and 7,735-8,033 ft. Gas show at 7,735 ft. Elko Fm. reported at 7,700 ft (Poole and Claypool, 1984, p. 198).**GULF REFINING CO.****Wilkins Ranch No. 2***API no.:* 27-007-05008*Permit no.:* 14*Location:* NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T39N, R69E

860 ft from north line, 660 ft from east line

Elevation: 4,889 ft*Completed:* Oct. 9, 1954*Status:* P & A*Depth:* 4,938 ft*Tops (from PI):*

2,350 ft	Tertiary Humboldt Fm.
4,707 ft	Mississippian(?)

Logs:

Lithologic	130-4,938 ft
ES	2,349-4,937 ft
GR/N	20-4,937 ft

Samples:

Cuttings	130-4,350 ft
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HUNT OIL CO.**Mary's River Federal No. 1-8***API no.:* 27-007-05221*Permit no.:* 292*Location:* NE $\frac{1}{4}$ sec. 8, T39N, R61E

1,320 ft from north line, 1,320 ft from east line

Elevation: 5,733 ft*Completed:* Jan. 18, 1981*Status:* P & A*Depth:* 8,970 ft*Tops (from PI):*

1,080 ft	Tertiary
8,710 ft	Ordovician

Logs:

Lithologic	825-8,970 ft
DI	3,750-8,970 ft
CNL/FDC	96-8,968 ft
BHCS	3,750-8,956 ft
DM	4,009-8,970 ft
PL/ML	3,980-8,970 ft
TS	0-8,970 ft
Cal	0-3,980 ft

Samples:

Cuttings	830-8,970 ft
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HUNT OIL CO. OF NEVADA**F. W. Hooper No. 1***API no.:* 27-007-05224*Permit no.:* 309*Location:* NW $\frac{1}{4}$ sec. 8, T35N, R59E

1,250 ft from north line, 1,930 ft from west line

Elevation: 5,354 ft*Completed:* Mar. 28, 1981*Status:* Water well*Depth:* 7,507 ft*Tops (from PI):*

1,060 ft	Tertiary
6,220 ft	Mississippian Chainman Sh.

Logs:

Lithologic	700-7,500 ft
DI	2,942-7,513 ft
CNL/FDC	2,942-7,510 ft
BHCS	2,942-7,501 ft
PL/micro	2,950-6,511 ft
DM	6,198-7,513 ft
TS	0-7,512 ft
Directional	6,198-7,513 ft

Samples:

Cuttings	700-7,500 ft
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INLAND OIL CO.**Itcaina No. 1***API no.:* 27-007-05005*Permit no.:* 6*Location:* NW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T36N, R58E

2,640 ft from south line, 1,000 ft from east line

Elevation: 5,500 ft*Completed:* May 30, 1954*Status:* P & A*Depth:* 990 ft**INLAND OIL CO.****Itcaina No. 2***API no.:* 27-007-05050*Permit no.:* 9*Location:* center, SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T36N, R58E

100 ft from south line, 3,290 ft from west line

Elevation: 5,500 ft*Completed:* May 27, 1954*Status:* P & A*Depth:* 980 ft**INLAND OIL CO.****Itcaina No. 3***API no.:* 27-007-05051*Permit no.:* EL12

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 31, T36N, R58E
 680 ft from south line, 1,950 ft from east line
 Elevation: 5,500 ft
 Completed: 1954
 Status: D & A
 Depth: 324 ft
 Remarks: This well is 20 ft north and 30 ft east of Itcaina No. 2.

LADD PETROLEUM CORP.

Federal No. 1-31-N

API no.: 27-007-05208

Permit no.: 178

Location: NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T40N, R55E
 1,300 ft from south line, 2,350 ft from west line

Elevation: 6,050 ft

Completed: June 2, 1976

Status: P & A

Depth: 7,106 ft

Tops:

1,568 ft	volc.
4,190 ft	Paleozoic

Logs:

DIL	1,066-6,992 ft
BHCS	1,066-6,986 ft

Remarks: Gas shows at 3,500-3,800 ft and 4,300-5,700 ft.
 Top of volcanics also reported as 1,690 ft, and top of Paleozoic as 4,330 ft.

LADD PETROLEUM CORP.

Nevelko No. 1

API no.: 27-007-05209

Permit no.: 182

Location: SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T34N, R55E
 3,102 ft from south line, 2,120 ft from east line

Elevation: 5,182 ft (at KB)

Completed: Sept. 30, 1976

Status: P & A

Depth: 5,670 ft

Tops:

3,420 ft	volc.
4,320 ft	Elko Fm.
5,490 ft	Paleozoic

Logs:

FDC	2,000-5,670 ft
BHCS	0-5,670 ft
DI	1,042-5,670 ft
CNL	2,000-5,770 ft

LAST FRONTIER OIL CO.

Government No. 1

API no.: 27-007-05002

Permit no.: EL8

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 23, T31N, R69E
 320 ft from north line, 554 ft from east line

Completed: 1953

Status: P & A

Depth: 1,327 ft

Tops:

Surface	Quaternary lakebeds
370 ft	Tertiary Humboldt Fm.
910 ft	Pennsylvanian Oquirrh Fm.

Logs:

Lithologic	240-1,208 ft
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Samples:

Cuttings	0-1,320 ft
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Remarks: A slight oil show was reported at 805-813 ft.

MARLIN OIL CO.

Federal No. 1-4

API no.: 27-007-05231

Permit no.: 367

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T26N, R62E
 660 ft from north line, 660 ft from east line

Elevation: 6,398 ft

Completed: July 28, 1984

Status: P & A

Depth: 9,080 ft

Tops:

Surface	Pliocene-Pleistocene fanglomerate
1,330 ft	Tertiary volcanics
1,800 ft	unconformity
1,800 ft	Permian Riepetown Fm.
3,220 ft	Permian Riepe Spring Fm.
3,935 ft	unconformity
3,935 ft	Pennsylvanian Ely Ls.
6,065 ft	unconformity
6,065 ft	Mississippian Lower Ely Ls.
6,350 ft	Mississippian Chainman-Diamond Peak Fms.
8,725 ft	Mississippian Joana Ls.

Logs:

Lithologic	500-9,080 ft
BHCS/GR	1,350-9,000 ft
DI	1,348-9,069 ft
FDC	1,348-9,041 ft
CN/FDC	1,348-9,041 ft
CBL	3,000-8,060 ft
DM	1,750-7,500 ft
Directional	0-9,080 ft
FIL	6,300-7,500 ft

Samples:

Cuttings	490-9,080 ft
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Remarks: PT's at 3,550-3,555 ft, 5,280-5,300 ft, 6,450-6,475 ft, 6,710-6,725 ft, 6,768-6,800 ft, 6,890-6,900 ft, 7,335-7,365 ft, and 7,380-7,395 ft had gas shows. PT's at 6,670-6,695 ft, 6,820-6,870 ft, 7,100-7,180 ft, 7,200-7,255 ft, and 7,255-7,275 ft had oil and gas shows. Tests on the "oil" (solid hydrocarbon) material suggest that it is coal and waxy oil derived from coal.

McCARTHY OIL CO.

Rahas No. 1

API no.: 27-007-05004

Permit no.: EL6

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T35N, R58E

Elevation: 5,250 ft

Completed: 1951

Status: D & A

Depth: 4,125 ft

Tops:

Surface	Tertiary
3,150 ft	Pennsylvanian Ely Ls.
3,650 ft	Mississippian White Pine Sh.

Logs:

Lithologic	0-4,100 ft
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Samples:

Cuttings	1,850-4,100 ft
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Remarks: Oil shows reported (Johnson, 1959, p. 152).

MERRITT ARMSTRONG WELL

API no.: 27-007-04007

Permit no.: EL2

Location: T35N, R55E

Status: D & A

Remarks: This well was reported to be very shallow (Lintz, 1957a).

ELKO COUNTY (continued)**PAN AMERICAN PETROLEUM CORP.****Cobre Minerals Corp. No. 1**

API no.: 27-007-05200

Permit no.: 123

Location: SW¼SE¼ sec. 3, T37N, R67E

660 ft from south line, 1,976 ft from east line

Elevation: 5,890 ft

Completed: Sept. 27, 1968

Status: P & A

Depth: 5,284 ft

Logs:

BHCS/GR	613-5,284 ft
IES	613-5,284 ft
N	3,784-5,284 ft

PAN AMERICAN PETROLEUM CORP.**U.S.A. Franklin No. 1**

API no.: 27-007-05201

Permit no.: 147

Location: NW¼SW¼ sec. 8, T30N, R60E

3,347 ft from north line, 1,023 ft from west line

Elevation: 5,952 ft

Completed: Jan. 23, 1971

Status: P & A

Depth: 13,116 ft

Tops (from PI):

1,200 ft	Tertiary
3,890 ft	Permian
10,940 ft	Pennsylvanian Ely Ls.
11,570 ft	Mississippian Chainman Sh.
12,650 ft	Mississippian Joana Ls.
12,880 ft	Devonian Pilot Sh.

Logs:

BHCS/GR	1,008-13,116 ft
IES	1,008-13,116 ft
N	1,008-13,116 ft
TS	800-13,109 ft

Samples:

Cuttings 1,200-13,110 ft

Remarks: Water was encountered at 5,934-6,029 ft, 7,166-7,263 ft, and 12,640-12,840 ft.

PAN AMERICAN PETROLEUM CORP.**U.S.A. Jiggs No. 1**

API no.: 27-007-05202

Permit no.: 149

Location: NE¼NE¼ sec. 19, T29N, R56E

955 ft from north line, 583 ft from east line

Elevation: 5,550 ft

Completed: Apr. 14, 1971

Status: P & A

Depth: 13,600 ft

Logs:

IES	995-13,600 ft
BHCS/GR	995-13,600 ft
N	995-13,600 ft

Samples:

Cuttings 0-13,590 ft

Remarks: Palynology and organic-maturation analysis reports available at NBMG. DST at 4,685-4,807 ft had a gas show, and at 6,550-6,671 ft (Elko Fm., Bortz, 1985b) and 6,766-6,908 oil shows. Mississippian palynomorphs reported from 12,540-13,570 ft.

RICHFIELD OIL CORP.**Rabbit Creek Unit No. 1**

API no.: 27-007-05003

Permit no.: 24

Location: NW¼NW¼ sec. 11, T34N, R57E

660 ft from north line, 660 ft from west line

Elevation: 5,308 ft at KB

Completed: Apr. 30, 1956

Status: P & A

Depth: 7,349 ft

Tops (from PI):

909 ft	Tertiary Humboldt Fm.
1,152 ft	Tertiary basalt
2,386 ft	Tertiary Elko (?) Fm.
3,070 (?) ft	Paleozoic
6,524 (?) ft	Mississippian

Logs:

Lithologic	0-7,349 ft
IES	522-7,337 ft
TS	100-3,675 ft
Cal	3,300-7,336 ft

Samples:

Cuttings	22-7,349 ft
Core	277-7,349 ft (incomplete)

Remarks: Source-rock analysis available at NBMG.

RICHFIELD OIL CORP.**Scott-Ogilvie No. 1**

API no.: 27-007-05011

Permit no.: 32

Location: SW¼SW¼ sec. 22, T43N, R52E

640 ft from south line, 720 ft from west line

Elevation: 6,101 ft at KB

Completed: Jan. 17, 1957

Status: P & A

Depth: 3,390 ft

Tops:

2,350 ft	Paleozoic
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Logs:

Lithologic	0-3,386 ft
IES	502-3,383 ft
Cal	502-1,734 ft

Samples:

Cuttings	19-3,386 ft
Core	277-7,349 ft

Remarks: Good oil show at 1,522 ft in sandstone having low porosity and permeability. Oil stains on fractures and rare bleeding oil shows continue until approximately 2,150 ft. One gas show reported at 1,712 ft. Source-rock analysis available at NBMG.

SHELL OIL CO.**Goshute Unit No. 1**

API no.: 27-007-05207

Permit no.: 176

Location: sec. 19, T32N, R67E

330 ft from south line, 300 ft from west line

Elevation: 5,600 ft

Completed: Feb. 27, 1976

Status: P & A

Depth: 5,569 ft

Tops (from PI):

5,280 ft	Permian
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Logs:

Lithologic	420-5,569 ft
BHCS	420-5,436 ft
DIL	420-5,436 ft
CNL/FDC	1,996-5,434 ft
PL	2,024-5,434 ft
FDC/GR	1,996-5,434 ft
DLL	2,010-5,423 ft

Samples:

Cuttings 420-4,580 ft
Cuttings 4,610-5,440 ft

SHELL OIL CO.

Howell No. 42-1

API no.: 27-007-05213

Permit no.: 236

Location: SE 1/4 NE 1/4 sec. 1, T37N, R60E

3,562 ft from south line, 710 ft from east line

Elevation: 5,488 ft

Completed: July 8, 1978

Status: P & A

Depth: 8,714 ft

Logs:

Driller 0-8,714 ft
FDC/N 1,004-8,715 ft
DIL 1,004-8,710 ft
BHCS 1,004-8,704 ft
PL 1,004-2,698 ft

Samples:

Cuttings 1,010-8,260 ft

Remarks: Water analysis on DST's is available at NBMG. DST at 1,474-1,481 ft had a show of gas and one at 2,680-2,855 ft had a show of oil and gas.

SHELL OIL CO.

Mary's River Federal No. 1

API no.: 27-007-05211

Permit no.: 220

Location: NW 1/4 SE 1/4 sec. 30, T38N, R61E

2,000 ft from south line, 2,600 ft from east line

Elevation: 5,503 ft

Completed: May 8, 1978

Status: P & A

Depth: 12,125 ft

Logs:

Driller 0-12,125 ft
Lithologic 670-9,800 ft
FDC/N 660-9,811 ft
PL/ML 660-9,808 ft
DIL 660-9,804 ft
BHCS 660-9,808 ft

Samples:

Cuttings 960-12,120 ft

Remarks: DST at 9,105-9,247 ft had a gas show and DST at 7,206-7,365 ft had an oil show. Other oils shows reported. Oil reportedly recovered from 3,515-3,545 ft in Tertiary tuffaceous sandstone and siltstone (Poole and Claypool, 1984, table 15).

SOHIO PETROLEUM CO.

Ruby Valley Unit No. 1

API no.: 27-007-05220

Permit no.: 289

Location: SW 1/4 SE 1/4 sec. 11, T30N, R60E

341 ft from south line, 2,206 ft from east line

Elevation: 6,010 ft

Completed: Nov. 29, 1980

Status: P & A

Depth: 9,000 ft

Logs:

Driller 0-9,000 ft
BHCS 1,172-9,000 ft
DM 1,172-9,004 ft
DI 1,172-9,000 ft
FDC/N 1,172-8,974 ft

Samples:

Cuttings 70-9,000 ft

Remarks: Gas show at 4,960-4,970 ft.

SUN EXPLORATION & PRODUCTION CO.

Elko Hills No. 1

API no.: 27-007-05235

Permit no.: 429

Location: NW 1/4 NW 1/4 sec. 36, T34N, R56E

1,275 ft from north line, 920 ft from west line

Elevation: 5,447 ft

Completed: Aug. 4, 1985

Status: P & A

Depth: 8,525 ft

Logs:

Lithologic 80-8,525 ft
GR 1,529-8,488 ft
S 1,529-8,512 ft
DM 3,993-8,520 ft
DI 1,529-8,517 ft
FIL 1,529-3,978 ft
CBL 2,650-3,646 ft
DLL/ML 1,529-3,990 ft
CN/DL 1,529-8,520 ft
Directional 3,993-8,520 ft

Samples:

Cuttings 92-8,400 ft

Remarks: Oil show at 3,581 ft. Well name formerly Adobe Federal No. 1.

SUN EXPLORATION & PRODUCTION CO.

Shafter Federal No. 1

API no.: 27-007-05230

Permit no.: 349

Location: SE 1/4 SE 1/4 sec. 2, T34N, R66E

660 ft from south line, 660 ft from east line

Elevation: 5,581 ft

Completed: Sept. 14, 1984

Status: P & A

Depth: 8,000 ft

Tops:

1,620 ft Tertiary base of valley fill
4,440 ft Permian

Logs:

DIL/BHCS 1,206-7,991 ft
CNL/FDC 1,206-7,991 ft
FIL 1,206-7,948 ft

Samples:

Cuttings 72-8,000 ft

SUN EXPLORATION & PRODUCTION CO.

Southern Pacific No. 3-13

API no.: 27-007-05228

Permit no.: 342

Location: SE 1/4 SE 1/4 sec. 13, T39N, R65E

660 ft from south line, 870 ft from east line

Elevation: 5,828 ft

Completed: Feb. 15, 1983

Status: P & A

Depth: 10,932 ft

Tops:

750 ft Tertiary
10,422 ft Triassic

Logs:

Lithologic 90-10,930 ft
DM 916-10,918 ft
CBL 7,818-8,745 ft
BHCS 897-10,926 ft

ELKO COUNTY (continued)

DI 898-10,926 ft
 FIL 1,500-10,923 ft
 CNL/FDC 898-8,638 ft
 S 898-10,932 ft
 Directional 898-10,923 ft
 GR 898-8,607 ft

Samples:

Cuttings 0-10,930 ft

Remarks: Core analysis at 9,440-9,475 ft, and water and crude oil analyses are available at NBMG. DST at 7,332-7,382 ft had an oil show. DST at 7,400-7,460 ft had a gas show. DST at 8,390-8,430 ft (Humboldt Fm., Poole and Claypool, 1984, table 15) had an oil and gas show. DST at 8,510-8,641 ft had an oil and gas show. DST at 9,410-9,475 ft had an oil and gas show.

SUN EXPLORATION & PRODUCTION CO.**Toano Federal No. 1**

API no.: 27-007-05229

Permit no.: 348

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T40N, R65E

1,760 ft from south line, 2,290 ft from west line

Elevation: 5,624 ft

Completed: Feb. 4, 1984

Status: P & A

Depth: 10,911 ft

Logs:

S 1,512-4,821 ft
 CNL 10,275-10,907 ft
 BHCS 1,512-4,821 ft
 DIL 10,383-10,898 ft
 GR 1,512-4,792 ft

Samples:

Cuttings 50-10,910 ft

SUN OIL CO.**(SUN EXPLORATION & PRODUCTION CO.)****Southern Pacific No. 1**

API no.: 27-007-05226

Permit no.: 330

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 33, T39N, R65E

2,300 ft from south line, 830 ft from west line

Elevation: 6,128 ft

Completed: Apr. 12, 1982

Status: P & A

Depth: 14,000 ft

Tops:

1,615 ft Triassic
 1,820 ft Permian
 6,010 ft fault
 6,010 ft Mississippian Chainman Sh.
 12,916 ft fault
 12,916 ft Devonian Guilmette(?) Fm.
 13,440 ft pegmatite
 13,805 ft fault
 13,805 ft Ordovician Eureka Qtz.

Logs:

Lithologic 69-14,000 ft
 Directional 1,498-8,488 ft
 BHC/GR 66-13,974 ft
 DIL 66-14,003 ft
 FDC/CNL 66-8,495 ft
 DLL 1,498-4,500 ft
 FIL 1,498-8,498 ft
 GR 1,498-8,498 ft
 TS 50-14,000 ft

DM 1,498-8,498 ft
 Cyberlook 300-750 ft

Samples:

Cuttings 70-14,000 ft

Remarks: Water zone at 8,410-8,500 ft; Oil shows at 420-730 ft and 3,210-3,250 ft.

TEXACO, INC.**Crane Springs No. 19-13**

API no.: 27-007-05225

Permit no.: 312

Location: NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T31N, R55E

2,050 ft from south line, 454 ft from west line

Elevation: 5,950 ft

Completed: June 20, 1981

Status: P & A

Depth: 3,477 ft

Logs:

Lithologic 660-3,480 ft
 DIL/FDC/CNL/GR 327-3,478 ft
 Directional 1,451-3,478 ft
 DM 1,451-3,478 ft
 Driller 0-3,477 ft

Samples:

Cuttings 330-3,470 ft

Remarks: Core analysis available at NBMG for 2,973-3,002 ft, 3,447-3,477 ft, 3,851-3,852 ft, and 3,869-3,870 ft. Oil shows at 2,630-2,930 ft, 2,974-2,975 ft, 2,980-2,981 ft, and 2,984-2,985 ft.

TEXXON INVESTMENTS, INC./WIL-O-EXPLORATION**Texxon No. 2**

API no.: 27-007-05241

Permit no.: 467

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6, T39N, R62E

341 ft from south line, 1,771 ft from west line

Elevation: 5,769 ft

Completed: 1986

Status: P & A

Depth: 1,060 ft

Remarks: An oil discovery was reported by the operator shortly after drilling commenced, but later newspaper accounts suggest that any mention of oil production was highly inflated; possibly there were no shows in the well. A sample of oil purported to be produced from the well was diesel fuel (Alan Chamberlain, oral commun., 1985).

WESTERN OSAGE OIL, INC.**Government No. 1**

API no.: 27-007-05001

Permit no.: EL5

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T31N, R69E

Completed: 1951

Status: P & A

Depth: 785 ft

Remarks: The exact depth of this well is not known. One report indicates 785 ft in depth and Petroleum Information indicates 1,025 ft. According to a newspaper release this well encountered a pocket of gas at 60 ft, probably in the Lake Bonneville deposits (Lintz, 1957a, p. 38).

WEXPRO CO.**Cord No. 24-1**

API no.: 27-007-05214

Permit no.: 246

Location: NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T29N, R55E

660 ft from north line, 660 ft from east line

Elevation: 5,443 ft

Completed: Aug. 15, 1979

Status: P & A

Depth: 11,926 ft

Tops (from PI):

1,800(?) ft	Pliocene Hay Ranch Fm.
3,100 ft	Miocene Humboldt Fm.
5,202 ft	Oligocene Indian Well Fm.
9,070 ft	Eocene Elko Fm.

Logs:

Lithologic	9,540-11,924 ft
DM	1,106-9,198 ft
FIL	1,106-9,198 ft
Directional	1,106-9,198 ft
DIL	1,106-11,920 ft
CNL/FDC	4,600-11,920 ft
BHCS	1,106-11,914 ft

Samples:

Cuttings 0-11,920 ft

Remarks: Biostratigraphic well analysis available at NBMG. DST at 8,385-8,457 ft had a gas and oil show. Indian Well Fm. (Oligocene) present at 5,400-5,500 ft, Elko Fm. (Eocene) present at 9,150-9,500 ft, Paleocene at 10,770-10,780 ft, Newark Canyon Fm. (?) (Cretaceous) at 10,800 ft.

WEXPRO CO.

Jiggs No. 10-1

API no.: 27-007-05217

Permit no.: 263

Location: SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, T29N, R55E

660 ft from south line, 660 ft from east line

Elevation: 5,557 ft

Completed: June 26, 1980

Status: P & A

Depth: 10,950 ft

Tops:

Surface	Quaternary alluvium
2,102 ft	Miocene Humboldt Fm.
5,041 ft	Oligocene Indian Well Fm.
9,053 ft	Eocene Elko Fm.
9,538 ft	Paleozoic

Logs:

BHCS	1,500-10,562 ft
Cyberdip	5,100-10,547 ft
DM	1,533-10,564 ft
CNL/FDC	4,490-10,572 ft
CBL	7,484-10,788 ft
DIL	1,495-10,568 ft
FIL	1,525-10,564 ft

Samples:

Cuttings 1,530-10,950 ft

Remarks: Gas producing intervals reported are: 9,060-9,086 ft, 9,096-9,118 ft, 9,128-9,165 ft, 9,300-9,330 ft, and 9,400-9,420 ft, all in the Elko Fm. DST at 9,395-9,398 ft flowed gas and recovered 558 ft of low pour-point oil. During testing the well flowed 93 MCF of gas; it was considered capable of commercial production but no pipeline facilities were available or anticipated. Oil was also recovered from Mississippian-Pennsylvanian rocks below 10,000 ft (Poole and Claypool, 1984, table 15).

WEXPRO CO.

Jiggs Unit No. 2

API no.: 27-007-05223

Permit no.: 297

Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, T29N, R55E

1,746 ft from south line, 2,376 ft from west line

Elevation: 5,535 ft

Completed: Feb. 1, 1981

Status: P & A

Depth: 10,320 ft

Tops:

Surface	Quaternary alluvium
3,400 ft	Pliocene Hay Ranch Fm.
6,020 ft	Oligocene Indian Well Fm.
8,170 ft	Paleozoic

Logs:

DIL	1,564-10,282 ft
BHCS	1,564-10,282 ft
FDC/CNL	1,564-10,285 ft
FIL	1,568-10,238 ft

Samples:

Cuttings 1,600-10,310 ft

Remarks: DST at 9,404-9,452 ft had a gas show.

WIL-O-EXPLORATION

Farnes No. 1

API no.: 27-007-05237

Permit no.: 434

Location: NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T39N, R62E

18 ft from north line, 1,816 ft from west line

Elevation: 5,769 ft

Completed: May 15, 1985

Status: TA

Depth: 2,250 ft

Logs:

BHCS(?)	30-1,052 ft
GR(?)	30-1,054 ft
DLL(?)	30-1,052 ft
CNL/FDC/GR(?)	30-1,054 ft

Remarks: Oil shows reported. Originally drilled in search of hot water. Oil shows not confirmed by later reports (Actionline, May 4, 1985). See Texxon Investments Inc., Texxon No. 2.

WIL-O-EXPLORATION

Farnes No. 2

API no.: 27-007-05239

Permit no.: 447

Location: SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T39N, R62E

430 ft from north line, 1,582 ft from west line

Elevation: 5,748 ft

Completed: 1985

Status: TA

Depth: 1,074 ft

Logs:

DLL(?)	400-1,016 ft
GR(?)	400-1,018 ft
CNL/GR(?)	400-1,018 ft

WIL-O-EXPLORATION/TEXXON INVESTMENTS, INC.

Texxon No. 1

API no.: 27-007-05240

Permit no.: 461

Location: NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T39N, R62E

254 ft from north line, 1,714 ft from west line

Elevation: 5,769 ft

Completed: 1986

Status: P & A

Depth: 1,240 ft (?)

ESMERALDA COUNTY

Only six wells are known to have been drilled in Esmeralda County. A well drilled 4 miles south of Coaldale in 1925 encountered flammable gas (probably